Site code[1]	**MM5006**
Location	**Teesdale (Shelford Bannockburn Road), Shelford district, south-west Victoria**
Landform	Level plains
Geology	Quaternary alluvium, colluvium, lagoon and swamp deposits: *gravel*, *sand*, *silt*, *clay*
Element	Flat

Profile morphology

Horizon	Depth (cm)	Description
A1	0–12	Very dark greyish brown (10YR3/2); sandy loam; apedal massive structure; weak dry consistence; clear boundary to:
A2	12–25	Light yellowish brown (10YR6/4), conspicuously bleached, very pale brown (10YR7/3 dry); loamy sand; many fine segregations; sharp boundary to:
B21	25–70	Yellowish brown (10YR5/6) with red (2.5YR4/6) mottles; medium clay; strong fine blocky structure; very firm consistence (dry); gradual boundary to:
B22	70+	Yellowish brown (10YR5/6) with red (2.5YR4/6) mottles; medium clay; strong coarse blocky structure; very firm consistence (dry).

ASC: Ferric, Motted-Subnatric, Brown Sodosol

Analytical data[2]

Site MM5006 Horizon	Sample depth cm	pH H_2O	pH $CaCl_2$	EC dS/m	NaCl %	Ex Ca $cmol_c/kg$	Ex Mg $cmol_c/kg$	Ex K $cmol_c/kg$	Ex Na $cmol_c/kg$	Ex Al mg/kg	Ex acidity $cmol_c/kg$
A1	0–12	5.6	N/R	0.07	N/R	2.7	2.7	0.5	0.2	N/R	10.4
A2	12–25	6.3	N/R	0.03	N/R	1.2	1.2	0.1	0.1	N/R	1.6
B21	25–70	7	N/R	0.12	N/R	3.4	3.4	0.8	2	N/R	10.8
B22	70+	7.9	N/R	0.24	0.05	2.7	2.7	0.8	4.2	N/R	5.8

Site MM5006 Horizon	Sample depth cm	FC (-10kPa) %	PWP (-1500kPa) %	KS %	FS %	Z %	C %	Org C %	Bulk density $t\ m^{-3}$
A1	0–12	14.9	7.6	54	18	6	14	3.4	1.49
A2	12–25	N/R	N/R	47	38	5	5	0.6	N/R
B21	25–70	42.2	30	4	2	2	91	N/R	1.21
B22	70+	N/R	N/R	10	7	2	75	N/R	N/R

Management considerations

This soil type has a sandy topsoil and exhibits a strong texture contrast between the surface soil and the subsoil. A conspicuously bleached A2 with many fine segregations is an indication of restricted drainage, poor soil structure (often massive), low organic matter and low nutrients. The subsoils are mottled and indicate periodic waterlogging.

Management options may be to increase organic matter while the maintenance of a vegetative cover is important.

[1] Source: Maher JM, Martin JJ 1987 Soils and landforms of south-western Victoria. Department of Agriculture and Rural Affairs. Research Report No. 40.

[2] Source: Government of Victoria, State Chemistry Laboratory.